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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/614,604	07/07/2003	Naomi M. Jenkins	2000.107500/TT5487	7792
23720 75	90 10/20/2004		EXAMINER	
WILLIAMS, MORGAN & AMERSON, P.C.			VO, HIEN XUAN	
10333 RICHMOND, SUITE 1100 HOUSTON, TX 77042			ART UNIT	PAPER NUMBER
,			2863	
		DATE MAILED: 10/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 12 47 >			
	Application No.	Applicant(s)			
Office Action Summan	10/614,604	JENKINS ET AL.			
Office Action Summary	Examiner	Art Unit			
7	Hien X. Vo	2863			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be time reply within the statutory minimum of thirty (30) days iod will apply and will expire SIX (6) MONTHS from titute, cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 07	7 July 2003.				
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• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)	drawn from consideration. s/are rejected. jected to.				
Application Papers					
 9) The specification is objected to by the Exam 10) The drawing(s) filed on <u>07 July 2003</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the 	a) \boxtimes accepted or b) \square objected to be the drawing(s) be held in abeyance. See rection is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bur * See the attached detailed Office action for a li	ents have been received. ents have been received in Applicati riority documents have been receive reau (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 08) 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-8, 13-14, 16-18, 20-23, 25-33 rejected under 35 U.S.C. 102(e) as being anticipated by Pasadyn et al. (U.S. Patent No. 6,773,931).

With respect to claims 1, 13, Pasadyn et al. disclose a dynamic targeting for a process control system that includes performing a process step upon a batch of workpieces using a processing tool (see e.g. abstract), performing a tool state analysis upon the processing tool (see e.g. col. Col. 3, lines 40-43), and performing a dynamic metrology routing adjustment process based upon the tool state analysis, the dynamic metrology routing adjustment process further comprises correlating the tool state analysis to the batch of workpieces and adjusting a metrology routing based upon the correlation (see e.g. col. 3, lines 50-67).

With respect to claims 2-5, 14, 18, 21, 23, 25, 30 Pasadyn et al. disclose the invention as claimed including the process step upon the batch of workpieces further

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comprises performing the process step upon a batch of semiconductor wafers (see e.g. col. 13. lines 55-57), the tool state analysis upon the processing tool further comprises acquiring tool state data (see e.g. col. 14, lines 10-14), the tool state data further comprises acquiring at least one of a pressure data, a temperature data, a humidity data, and a gas flow rate data relating to the process step performed upon the workpieces (see e.g. col. 2, lines 50-54), the tool state analysis upon the processing tool further comprises performing a tool health analysis relating to the processing tool (see e.g. col. 2, lines 12-20).

With respect to claims 6-8, 31-33, Pasadyn et al. disclose the invention as claimed including a fault detection analysis relating to the processing of the batch, an operation performed by the processing tool, at least one fault relating to the batch (see e.g. col. 2, lines 54-65).

Claims 16, 17, 22 are apparatus claims corresponding to method claims 1-8, 13. Therefore, claims 16, 17, 22 are rejected for the same rationales set forth for claims 1-8, 13.

With respect to claim 20, Pasadyn et al. disclose the invention as claimed including a database unit to store at least one of metrology data, tool state data and the electrical test data (see e.g. Fig. 3. item 340).

With respect to claim 26-29, Pasadyn et al. disclose the invention as claimed including a computer readable program storage device encoded with instructions that when executed by a computer, performs a method, comprising:

performing a process step upon a batch of workpieces using a processing tool:

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performing a tool state analysis upon the processing tool; and performing a dynamic metrology routing adjustment process based upon the tool state analysis, the dynamic metrology routing adjustment process further comprises correlating the tool state analysis to the batch of workpieces and adjusting a metrology routing based upon the correlation (see e.g. col. 14, lines 31-49), the process step upon the batch of workpieces further comprises performing the process step upon a batch of semiconductor wafers (see e.g. col. 14, lines 54-55), the tool state analysis upon the processing tool further comprises acquiring tool state data (see e.g. col. 14, lines 43-46), acquiring the tool state data further comprises acquiring at least one of a pressure data, a temperature data, a humidity data, and a gas flow rate data relating to the process step performed upon the workpieces (see e.g. claim 22).

3. Claims 9-12, 15, 19, 24, 34-37 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien X. Vo whose telephone number is (571) 272-2282. The examiner can normally be reached on M-F (8:00-5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hien Vo October 14, 2004

John Baylow
Supervisory Patent Examiner
Technology Center 2800